Listing of Claims

The following listing of claims replaces all prior versions and listings of claims in the Application.

1. (Previously Presented)   A method of preparing a di-, tri- and tetrasubstituted pyrrole comprising the step of:

    reacting an alkoxy cyclopropane with a functionalized nitrile in the presence of an effective Lewis acid catalyst.

2. (Original)   The method of claim 1, wherein the Lewis acid is trimethylsilyl trifluoromethanesulfonate.

3. (Previously Presented) The method of claim 1, wherein at least one substituent group selected from the group consisting of aryl group, alkyl group, and hydrogen, is selectively positioned in the cyclopropane.

4. (Previously Presented) The method of claim 3, wherein the position of the substituent in the resulting pyrrole is optionally at the 4-positon, the 5-position or both the 4 and 5 positions.

5. (Original) The method of claim 1, wherein the stereochemistry of the cyclopropane has no effect on reaction efficiency.

6. (Original) The method of claim 1, wherein the pyrrole preparation is compatible with at least one protective group.

7. (Original) The method of claim 6, wherein the protective group is optionally a silylene, a benzyl ether or an acetate.

8. (Original) The method of claim 1, wherein the pyrrole is unsymmetrical.

9. (Original) The method of claim 1, wherein the cyclopropane has a C(2) substituent that is an electron withdrawing group.

10. (Canceled)

11.   (Previously Presented) A synthesis reaction comprising:

        an alkoxy cyclopropane;

        an aliphatic, aromatic, branched, α,β-unsaturated, aryl, or otherwise functionalized
nitrile; and

        a Lewis acid activator, wherein the synthesis reaction requires cycloaddition, dehydration
and tautomerization.

12.   (Original) The synthesis reaction of claim 12, wherein the cyclopropane has a substituent at
C(2) that is an electron withdrawing group.

13.   (Previously Presented) The synthesis reaction of claim 12, wherein the pyrrole if is formed
without the formation of multiple constitutional isomers.

14-17. (Canceled)